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PATENT  
Attorney Docket No. CYC-046

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TC 1700

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(S): Phelps *et al.* CONFIRMATION NO.: 7837  
SERIAL NO.: 09/974,722 GROUP NO.: 1711  
FILING DATE: October 9, 2001 EXAMINER: Boykin  
TITLE: ORGANO-TITANATE CATALYSTS FOR PREPARING PURE  
MACROCYCLIC OLIGOESTERS

Commissioner for Patents  
Washington, D.C. 20231

FOURTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with the provisions of 37 C.F.R. 1.97 and 1.98, Applicants hereby make of record the patents and publications listed on the accompanying Form PTO-1449, and other information contained herein, for consideration by the Examiner in connection with the examination of the above-identified patent application. Copies of the patents and publications are enclosed.

REMARKS

In accordance with the provisions of 37 C.F.R. 1.97, this statement is being filed (CHECK ONE):

- ☐ (1) within three (3) months of the **filing date** of a national application other than a continued prosecution application under 37 C.F.R. 1.53(d), or within three (3) months of the **date of entry of the national stage** as set forth in 37 C.F.R. 1.491 in an international application, or before the mailing of the **first Office action** on the merits, or before the mailing of a **first Office action** after the filing of a request for continued examination under 37 C.F.R. 1.114; or
- ☒ (2) after the period defined in (1) but before the mailing date of a **final action** or a **notice of allowance** under 37 C.F.R. 1.311, and
- ☐ the requisite Statement is below, **OR**
- ☒ the requisite fee under 37 C.F.R. 1.17(p), namely **\$180.00**, is included herein, or

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- ☐ (3) after the mailing date of a **final action** or **notice of allowance** but before the payment of the **issue fee**, **AND**
- ☐ the requisite Statement is below, **AND**
- ☐ the requisite petition fee under 37 C.F.R. 1.17(p), namely **\$180.00** is included herein.

It is respectfully requested that each of the patents and publications listed on the attached Form PTO-1449, and other information contained herein, be made of record in this application.

### STATEMENT

As required under 37 C.F.R. 1.97(e), Applicant(s), through the undersigned, hereby state either that [check the appropriate space only if either (2) or (3) is checked on the previous page and the Statement is required]:

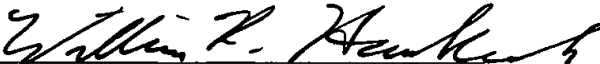
- ☐ 1. Each item of information contained in the Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application **not more than three months** prior to the filing of the Information Disclosure Statement; or
- ☐ 2. No item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing this Statement after making reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to **any individual** designated in 37 C.F.R. 1.56(c) **more than three months** prior to the filing of the Information Disclosure Statement.

Respectfully submitted,

Date: 1-20-04  
Reg. No. 53,002

Tel. No.: (617) 310-8427  
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FORM PTO - 1449

FOURTH SUPPLEMENTAL INFORMATION  
DISCLOSURE STATEMENT

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## U.S. PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	A88	6,525,164 B2	02/25/03	Faler	528	279	
	A89	6,436,549 B1	08/20/02	Wang	428	480	
	A90	6,436,548 B1	08/20/02	Phelps	428	480	
	A91	6,420,048 B1	07/16/02	Wang	428	480	
	A92	6,420,047 B2	07/16/02	Winckler et al.	428	480	
	A93	6,080,834	06/27/00	Putzig et al.	528	279	
	A94	5,654,395	8/5/97	Jackson et al.	528	308.3	
	A95	5,519,108	5/21/96	You et al.	528	287	
	A96	5,237,042	8/17/93	Kim et al.	528	279	
	A97	4,909,846	3/20/90	Barfuth et al.	106	22	
	A98	4,785,060	11/15/88	Nagler	525	444	
	A99	4,568,703	2/4/86	Ashida	521	124	
	A100	3,090,753	5/21/63	Matuszak et al.	252	42.7	
	A101	2,628,171	02/10/53	Green	106	271	

## FOREIGN PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG (Y/N)
	B38	798,412	08/06/1954	GB				No	Yes
	B39	2002317041	10/31/2002	JP				No	Yes (Translation)
	B40	2002308969	10/23/2002	JP				No	Yes (Translation)
	B41	2002293902	10/9/2002	JP				No	No (only abstract in English)
	B42	2002293903	10/9/2002	JP				No	No (only abstract in English)

EXAMINER

DATE CONSIDERED



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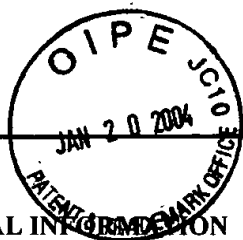
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	B43	2002293903	10/9/2002	JP				No	Yes (Translation)
	B44	63156824 A	11/10/1988	JP				Yes	Yes
	B45	62141063 A	06/24/1987	JP				Yes	Yes
	B46	02322272	11/08/2002	JP				Yes	Yes
	B47	02338672	11/27/2002	JP				Yes	Yes
	B48	02320499	11/05/2002	JP				Yes	Yes
	B49	11-136942	05/21/1999	JP				No	No (only abstract in English)
	B50	10-194262	07/28/1998	JP				No	No (only abstract in English)
	B51	10-069915	03/10/1998	JP				Yes	Yes
	B52	09-238806	09/16/1997	JP				No	No (only abstract in English)
	B53	09-110832	04/28/1997	JP				No	No
	B54	08-093594	04/09/1996	JP				No	No (only abstract in English)
	B55	03/031496 A1	04/17/2003	WO				No	Yes
	B56	02/098946 A1	12/12/2002	WO				No	Yes
	B57	01/56694 A1	08/09/2001	WO				No	Yes
	B58	99/25485	05/27/1999	WO				No	Yes
	B59	96/22319	07/25/1996	WO				No	Yes
	B60	95/00574	01/05/1995	WO				No	Yes

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OTHER ART, JOURNAL ARTICLES, ETC.		
EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)	
	C23	Chisholm et al. "Syntheses and structural characterization of 2,2'-methylene-bis(6- <i>t</i> -butyl-4-methylphenoxide) complexes of titanium, zirconium and tantalum," <i>Polyhedron</i> , Vol. 16, No. 17, (1997) pp. 2941-2949.
	C24	Durfee et al. "Chemical and Electrochemical Reduction of Titanium (IV) Aryloxides," <i>Inorganic Chemistry</i> , 24 (1985) pp. 4569-4573.
	C25	Fantacci et al. "Density Functional Study of Tetraphenolate and Calix[4]arene Complexes of Early Transition Metals," <i>Inorganic Chemistry</i> , 40 (2001) pp. 1544-1549.
	C26	Hamb et al. "Synthesis of Cyclic Tris(Ethylene Terephthalate)," <i>Polymer Letters</i> , 5 (1967), pp. 1057-1058.
	C27	Okuda et al. "Synthesis and Characterization of Mononuclear Titanium Complexes Containing a Bis(phenoxy) Ligand Derived from 2,2'-Methylene-bis(6- <i>tert</i> -butyl-4-methylphenol)," <i>Chem. Ber.</i> , Vol. 128, (1995) pp. 221-227.
	C28	Toth et al. "Towards supported catalyst models: the synthesis, characterization, redox chemistry, and structures of the complexes Ti(Oar') <sub>4</sub> (Ar' = C <sub>6</sub> H <sub>4</sub> (2- <i>t</i> -Bu), C <sub>6</sub> H <sub>4</sub> (2,3,5,6-Me) <sub>4</sub> )," <i>Canadian Journal of Chemistry</i> , Vol. 69, (1991) pp. 172-178.
	C29	Youk et al. "Polymerization of Ethylene Terephthalate Cyclic Oligomers with Antimony Trioxide," <i>Macromolecules</i> , 33 (2000), pp. 3594-3599.
EXAMINER		DATE CONSIDERED

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